(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



22 JUL 2305) ORBITA BUNDOOD IN BOOMB LOOK BOOM BOOM BUND BUND BUND BUND BUND BUND HELE KARD HELE BOOM BOOM BUND HELE KOOL

(43) International Publication Date 12 August 2004 (12.08.2004)

(10) International Publication Number WO 2004/068110 A2

(51) International Patent Classification7:

G01N

TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:

PCT/US2004/002215

(22) International Filing Date: 26 January 2004 (26.01.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/442,456 24 January 2003 (24.01.2003) US

(71) Applicant (for all designated States except US): UNIVER-SITY OF UTAH [US/US]; Suite 110, 615 Arapeen Drive, Salt Lake City, UT 84108 (US).

(72) Inventor; and

- (75) Inventor/Applicant (for US only): CAWTHON, Richard [/US]; 785 East 10th Avenue, Salt Lake City, UT 84103 (US).
- (74) Agents: TRECARTIN, Richard, F. et al.; Dorsey & Whitney LLP, Suite 3400, 4 Embarcadero Center, San Francisco, CA 94111 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17: as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS OF PREDICTING MORTALITY RISK BY DETERMINING TELOMERE LENGTH

(57) Abstract: The present invention provides for methods of determining telomere length of an organism and correlating the measured telomere length with mortality risk associated with telomere length in a population. The presence of shorter telomeres is associated with an increased mortality rate and increased susceptibility to certain types of diseases for an individual member of a human population.